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Work Order #: M107018

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

STD.

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

STD.

Please Specify

OTHER

*Turnaround Requests less than standard may incur Rush Charges.

MATRIX	# OF		NCA WO
(W, S, O)	CONT.	COMMENTS	ID

CLIENT: Bristol						INVOICE TO: Bristol								TURNAROUND REQUEST in Business Days*																					
REPORT TO: Anne Kinnitt wetten ADDRESS: Amchitha Island, AK														Organic & Inorganic Analyses <table border="1"><tr><td>10</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td></tr></table>							10	7	5	4	3	2	1	<1							
10	7	5	4	3	2	1	<1																												
PHONE: 907-770-0974 FAX: 770-0975						P.O. NUMBER: 21090								STD. Petroleum Hydrocarbon Analyses <table border="1"><tr><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td></tr></table>							5	4	3	2	1	<1									
5	4	3	2	1	<1																														
PROJECT NAME: Amchitha						REQUESTED ANALYSES																													
PROJECT NUMBER: 21090																																			
SAMPLED BY: cam																																			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		PCB's		TSS/BOD		Metals		Fertilizer Coliform Bacteria		POA Ph.												MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WORK ID								
1. DIAMTE07SW		7/7/01 0955		X		X		X		X		X												W		7									
2.																																			
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RELINQUISHED BY: Charlie Marshall						FIRM: Bristol						DATE: 7/7/01 TIME: 10:48						RECEIVED BY: MUSTAHSAN R. FAROOQUI						FIRM: NCA						DATE: 7-7-01 TIME: 10:52 AM					
RELINQUISHED BY:						FIRM:						DATE:						RECEIVED BY:						FIRM:						DATE:					
PRINT NAME:						TIME:						PRINT NAME:						FIRM:						TIME:											
ADDITIONAL REMARKS: Lagoon Treated Effluent Discharge H ₂ O sample																														TEMP:		PAGE		OF	



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541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/07/01 10:54. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107018



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE07SW	M107018-01	Water	07/07/01 09:55	07/07/01 10:54

C.O.C # 156

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Polychlorinated Biphenyls per EPA Method 8082

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE07SW (M107018-01) Water						Sampled: 07/07/01 Received: 07/07/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/07/01	07/07/01	0107029	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	0.719	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>69.5 %</i>	<i>44-119</i>							
<i>Surr: Decachlorobiphenyl</i>	<i>75.0 %</i>	<i>54-128</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE07SW (M107018-01) Water

Sampled: 07/07/01 Received: 07/07/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/08/01	07/09/01	0107034	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	0.0450	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	0.0000150	0.0000100	"	"	EPA 1631	07/09/01	07/10/01	0107036	

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE07SW (M107018-01) Water					Sampled: 07/07/01 Received: 07/07/01				
Biochemical Oxygen Demand	5.55	4.00	mg/l	1	EPA 405.1	07/07/01	07/12/01	0107031	A-01
Dissolved Oxygen	3.57	1.00	"	"	EPA 360.1	07/07/01	07/07/01	0107032	
pH	6.70	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/07/01	07/07/01	0107030	

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE07SW (M107018-01) Water					Sampled: 07/07/01 Received: 07/07/01				
E. Coli	ND	2.00MPN/100 ml	1		SM 9221	07/07/01	07/08/01	0107033	
Total Coliforms	2420	2.00	"	"	"	"	"	"	A-01a

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107029 - 3520B Liq-Liq

Blank (0107029-BLK1)

Prepared & Analyzed: 07/07/01

Aroclor 1016	ND	0.200	ug/l							
Aroclor 1221	ND	0.400	"							
Aroclor 1232	ND	0.200	"							
Aroclor 1242	ND	0.200	"							
Aroclor 1248	ND	0.200	"							
Aroclor 1254	ND	0.200	"							
Aroclor 1260	ND	0.200	"							

Surr: 2,4,5,6-Tetrachloro-m-xylene

0.139

"

0.200

69.5

44-119

Surr: Decachlorobiphenyl

0.153

"

0.200

76.5

54-128

LCS (0107029-BS1)

Prepared & Analyzed: 07/07/01

Aroclor 1254	0.738	0.200	ug/l	1.00		73.8	47-155			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.153		"	0.200		76.5	44-119			
Surr: Decachlorobiphenyl	0.179		"	0.200		89.5	54-128			

LCS Dup (0107029-BSD1)

Prepared & Analyzed: 07/07/01

Aroclor 1254	0.728	0.200	ug/l	1.00		72.8	47-155	1.36	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.132		"	0.200		66.0	44-119			
Surr: Decachlorobiphenyl	0.152		"	0.200		76.0	54-128			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107034 - EPA 200/3005

Blank (0107034-BLK1)

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

LCS (0107034-BS1)

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	0.0959	0.00500	mg/l	0.100	95.9	80-120
Cadmium	0.0976	0.00200	"	0.100	97.6	80-120
Chromium	0.0956	0.00500	"	0.100	95.6	80-120
Lead	0.0950	0.00500	"	0.100	95.0	80-120
Selenium	0.100	0.00500	"	0.100	100	75-115
Silver	0.101	0.00200	"	0.100	101	80-120

Duplicate (0107034-DUP1)

Source: M107018-01

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l	ND	9.48	20	
Cadmium	ND	0.00200	"	ND	58.1	20	Q-06
Chromium	ND	0.00500	"	ND	7.06	20	
Lead	0.0442	0.00500	"	0.0450	1.79	20	
Selenium	ND	0.00500	"	ND	68.3	20	Q-06
Silver	ND	0.00200	"	ND	21.1	20	Q-06

Matrix Spike (0107034-MS1)

Source: M107018-01

Prepared: 07/07/01 Analyzed: 07/09/01

Arsenic	0.113	0.00500	mg/l	0.100	ND	108	75-125
Cadmium	0.105	0.00200	"	0.100	ND	105	75-125
Chromium	0.104	0.00500	"	0.100	ND	102	75-125
Lead	0.140	0.00500	"	0.100	0.0450	95.0	75-125
Selenium	0.108	0.00500	"	0.100	ND	105	75-125
Silver	0.103	0.00200	"	0.100	ND	103	75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116	Project: Amchitka Project Number: 21090 Project Manager: Anne Kranawetter	Reported: 07/13/01 11:38
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Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107036 - EPA 1631

Blank (0107036-BLK1)

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury	ND	0.0000100	mg/l
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LCS (0107036-BS1)

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury	0.000127	0.0000100	mg/l	0.000125	102	85-115
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Duplicate (0107036-DUP1)

Source: M107018-01

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury	ND	0.0000100	mg/l	0.0000150	52.6	20	Q-06
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Matrix Spike (0107036-MS1)

Source: M107018-01

Prepared: 07/09/01 Analyzed: 07/10/01

Mercury	0.000159	0.0000100	mg/l	0.000125	0.0000150	115	75-125
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107030 - Wet Chem

Blank (0107030-BLK1)

Prepared & Analyzed: 07/07/01

Total Suspended Solids	ND	10.0	mg/l
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LCS (0107030-BS1)

Prepared & Analyzed: 07/07/01

Total Suspended Solids	121	10.0	mg/l	121	100	80-120
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Duplicate (0107030-DUP1)

Source: M107018-01

Prepared & Analyzed: 07/07/01

Total Suspended Solids	ND	10.0	mg/l	ND	0	20
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Batch 0107031 - Wet Chem

Blank (0107031-BLK1)

Prepared: 07/07/01 Analyzed: 07/12/01

Biochemical Oxygen Demand	ND	4.00	mg/l				A-01
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LCS (0107031-BS1)

Prepared: 07/07/01 Analyzed: 07/12/01

Biochemical Oxygen Demand	179	4.00	mg/l	198	90.4	75-125	A-01
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Duplicate (0107031-DUP1)

Source: M107018-01

Prepared: 07/07/01 Analyzed: 07/12/01

Biochemical Oxygen Demand	5.73	4.00	mg/l	5.55	3.19	40	A-01
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Batch 0107032 - Wet Chem

Duplicate (0107032-DUP1)

Source: M107018-01

Prepared & Analyzed: 07/07/01

Dissolved Oxygen	3.51	1.00	mg/l	3.57	1.69	20
pH	6.80	0.100	pH Units	6.70	1.48	200

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107033 - Micro Extractions

Blank (0107033-BLK1)

Prepared: 07/07/01 Analyzed: 07/08/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/13/01 11:38

Notes and Definitions

A-01 BOD Blk and Seed failed acceptance criteria, values are estimated.
A-01a Value is greater than 2418.2 MPN/100 ml.
Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
wet Sample results reported on a wet weight basis (as received)
RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107018 FINAL 07 13 01 1138.mdb Default Report (not modified)
0107031-BLK1	BOD-405.1	Biochemical Oxygen Demand	A-01
0107031-BS1	BOD-405.1	Biochemical Oxygen Demand	A-01
0107031-DUP1	BOD-405.1	Biochemical Oxygen Demand	A-01
0107034-DUP1	Ag Total ICPMS 6020	Silver	Q-06
0107034-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0107034-DUP1	Cd Total ICPMS 6020	Cadmium	Q-06
0107034-DUP1	Cd Total ICPMS 6020	Cadmium	Exceeds RPD limit
0107034-DUP1	Se Total ICPMS 6020	Selenium	Q-06
0107034-DUP1	Se Total ICPMS 6020	Selenium	Exceeds RPD limit
0107036-DUP1	Hg Total CVAF 1631	Mercury	Q-06
0107036-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
M107018-01	BOD-405.1	Biochemical Oxygen Demand	A-01
M107018-01	TC MPN-SM9221	Total Coliforms	A-01a